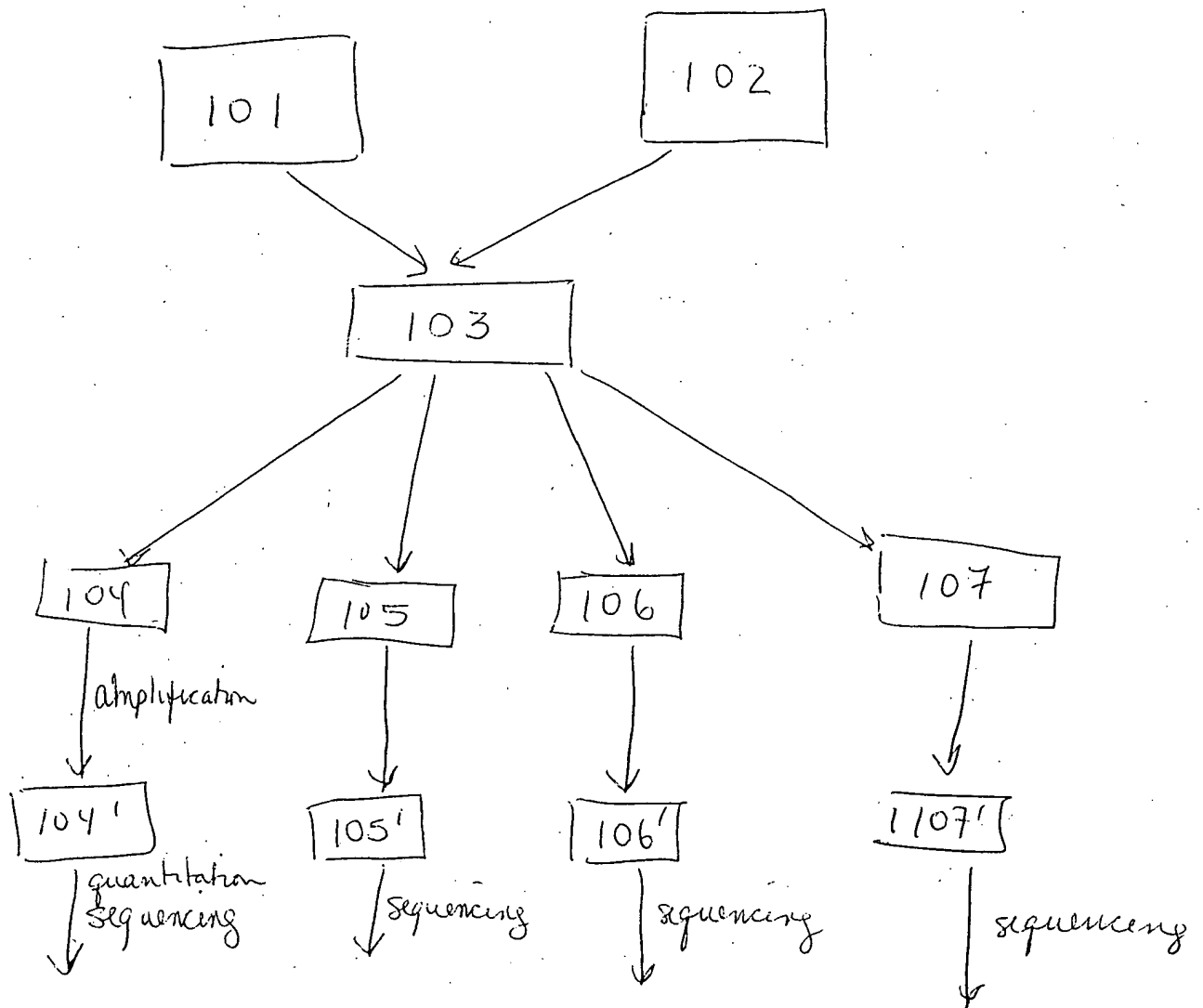


Fig 1



10082546.023502

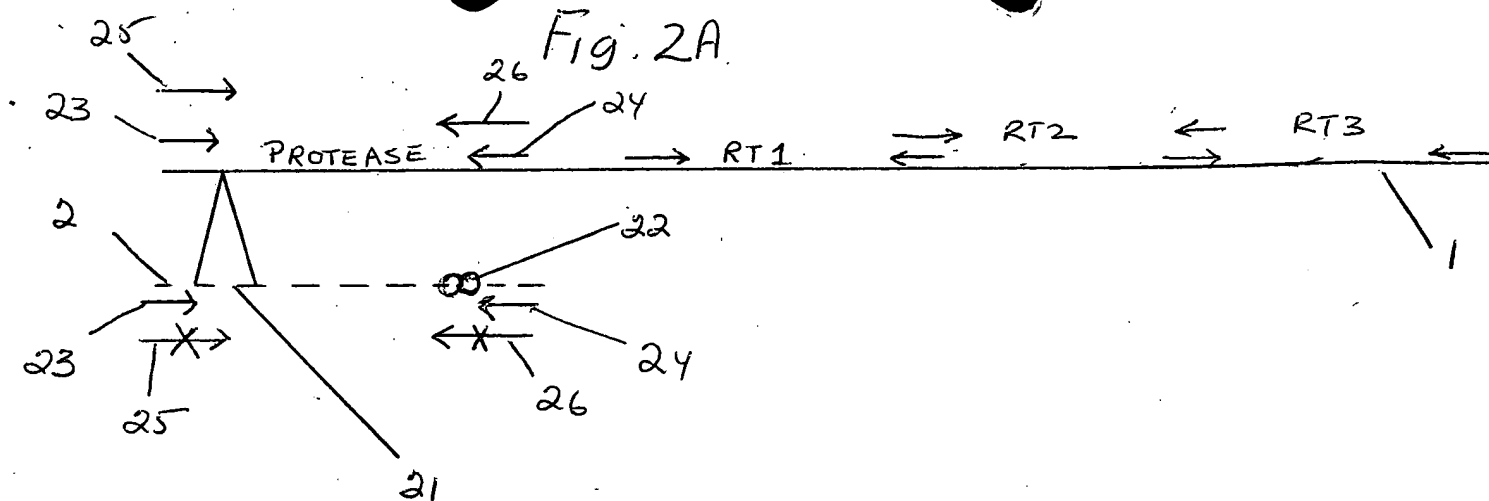
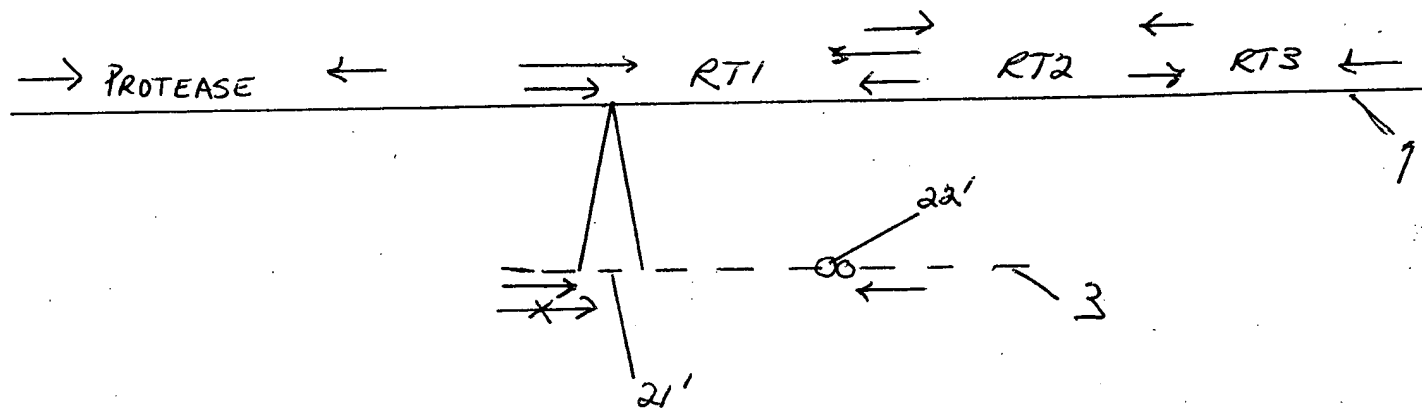


Fig 2B



HIV-1 patient RNA

HIV-1 quantitative  
standard RNA

Sample preparation  
Set up RT-PCR reaction

Reverse Transcription

Protease gene

RT gene fragment 1

RT gene fragment 2

RT gene fragment 3

Fig 3A

Protease gene

RT gene fragment 1

RT gene fragment 2

RT gene fragment 3

Polymerase

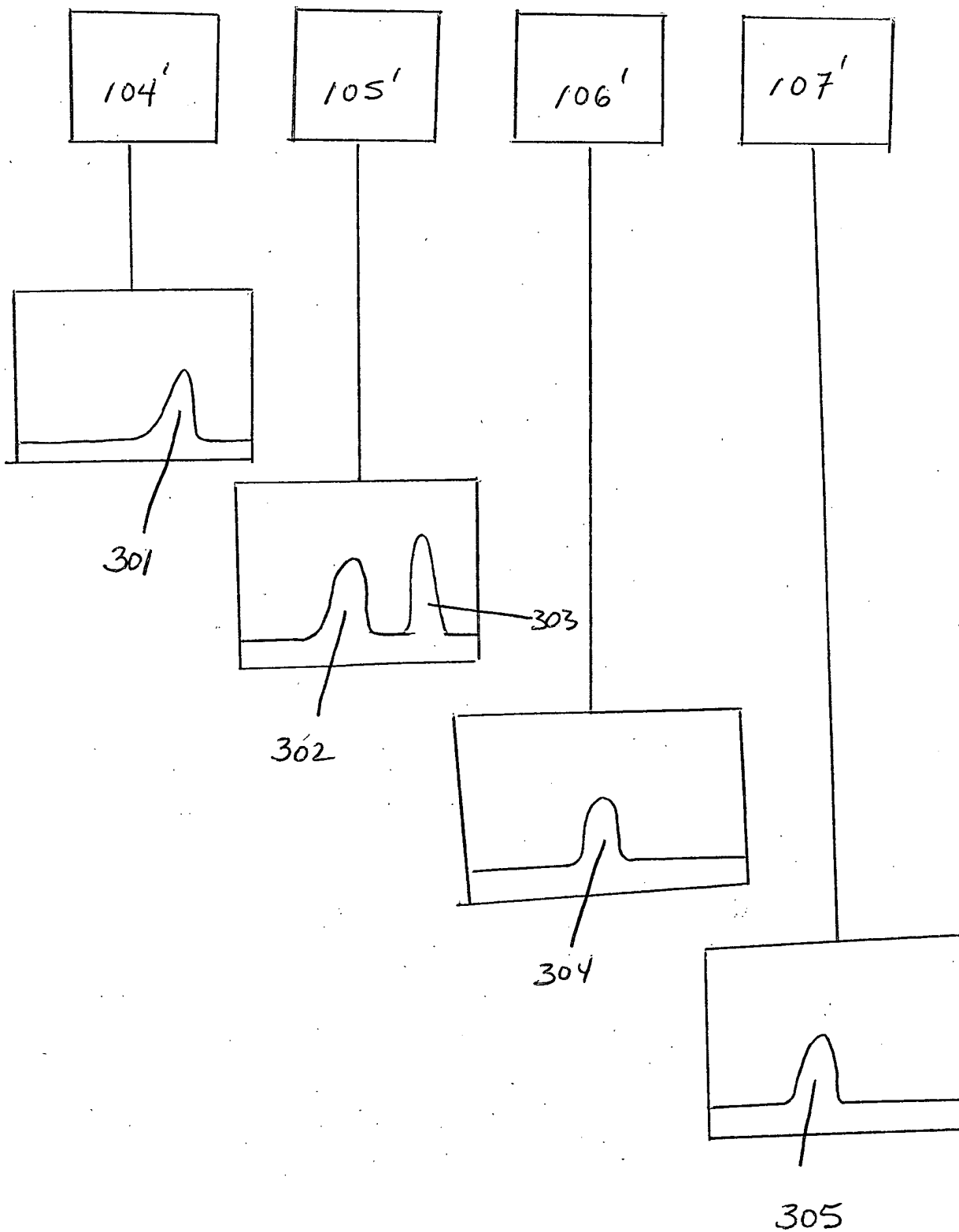
Chain

Reaction

Fig 3B

Fig 3C

20520 343800



205220-945800T 10082346-022502

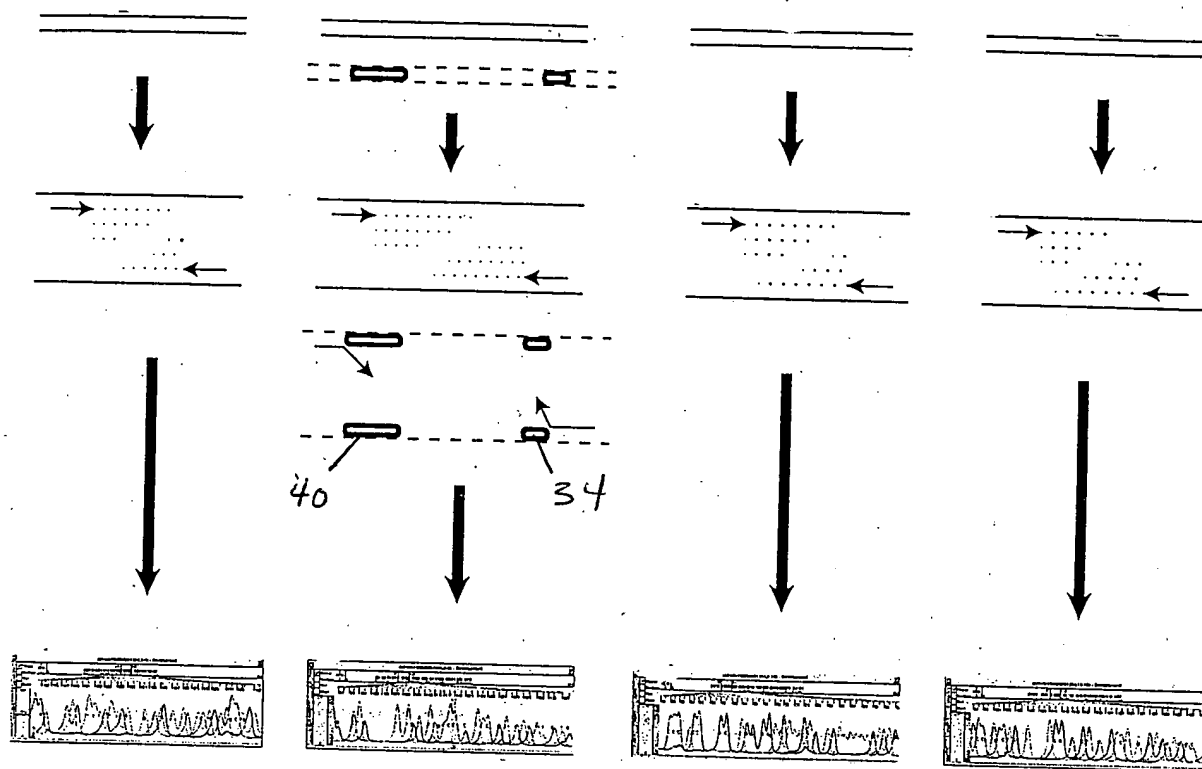


Fig 3D

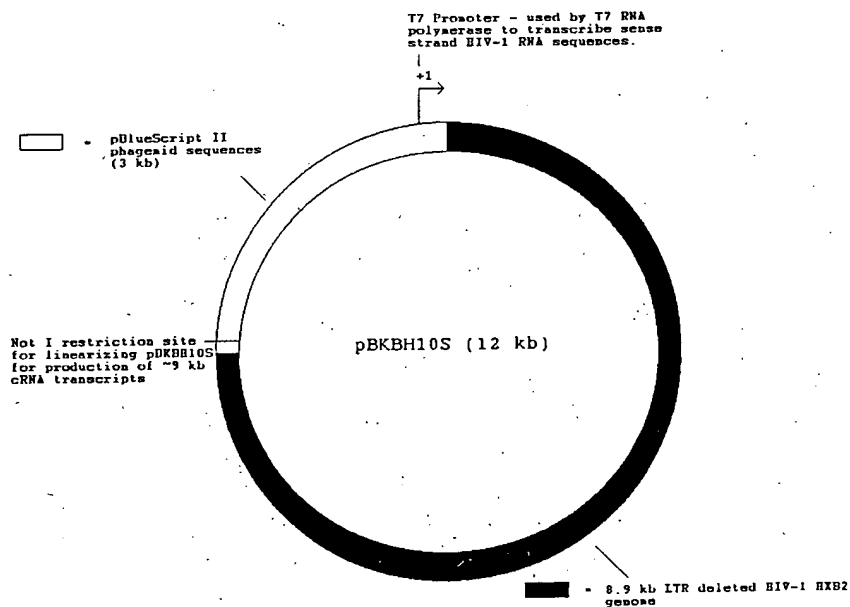


Fig 4

5' to 3' direction of HIV-1 sense sequence →

RT562F-A primer (for sequencing) →

RT558F primer (for RT-PCR) →

5' aaaagttaaacaatggccattgacag aagaaaaataaaagcattagtagaaatttgtagagatggaaaagga 3' base pairs  
 3' ttttcaatttggtaccggttaactgtc ttcttttttattttcgtaatcatctttaaacatgtctctaccttttct 5' 2606 to 2680

tcctaaataaatagca  
 aggatttatttatcgt

16 bp insertion added between nucleotides 2631 and 2632. The four terminal 3' nucleotides sequencing primer RT562F-A do not hybridize to sequences in the insert.

Fig 5

5' to 3' direction of HIV-1 sense sequence →

gg → cc  
 cc 3007/8 gg

Mutagenesis of nucleotides 3007 and 3008 to prevent primer extension of RT959R sequencing primer

5' tcagtacaatgtgcttccacagggat gg aaaggatcaccagcaatattccaaagtagc base pairs  
 3' agtcatgttacacgaaggtgtcccta cc ttctctagtggtcggtataaaggtttcatcg 2981 to 3038

RT964-2-R primer (for RT-PCR) ←

RT959R primer (for sequencing) ←

Fig 6.

